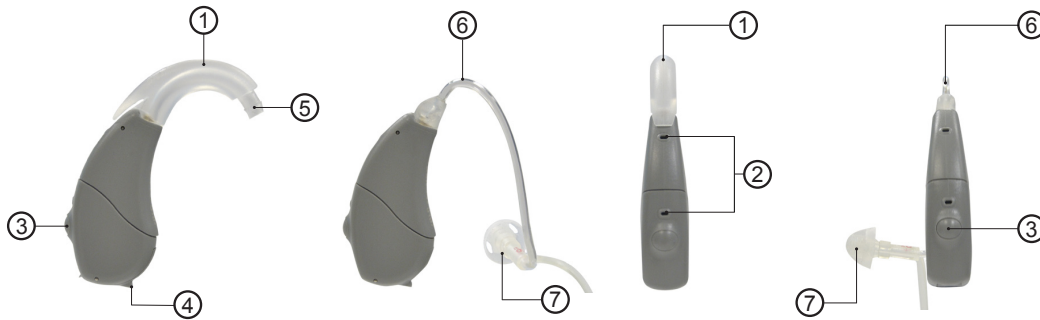


m4 mBTE-Open Fit

microson



1. Ergonomic Earhook
2. Microphones
3. Program Push Button
4. Battery Compartment (Type 312)
5. Acoustic Filter
6. Thin Tube
7. Dome or Adapter

Description

Behind-The-Ear air conduction digital hearing aid (BTE), Battery 312, programmable through fitting software.

Intended Use

The m4 mBTE-Open Fit hearing aid is intended to compensate for mild to severe (transmissive, mixed or sensorineural) hearing loss and acute loss with preserved low-frequencies (mixed or sensorineural). Its use is not intended for children or people with mental disabilities.

See Fitting Range ⁽¹⁾

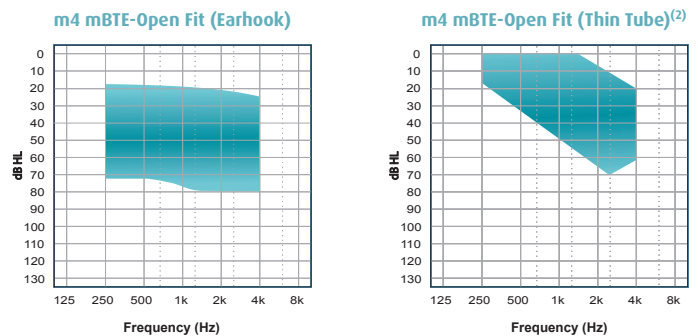
Features

- ✓ Matrix 131/58 @ 2cc (Standard Fitting)
- ✓ Standard and Open Fitting
- ✓ Automatic Directional Microphones
- ✓ 8 independent WDRC Channels
- ✓ 16 Bands Equalizer
- ✓ 8 Maximum Output Control Channels (MPO)
- ✓ Automatic Noise Reductor (up to 17 dB)
- ✓ Wind Noise Suppressor
- ✓ Feedback Canceller Extreme
- ✓ 4 Memories
- ✓ Memory Auto-save
- ✓ Acoustic Tap
- ✓ Memory Change and Low Battery Indicator
- ✓ Noise Generator for Tinnitus Treatment (TRT)
- ✓ Datalogging
- ✓ Nanoproof Coating⁽³⁾
- ✓ Degree of Protection IP57⁽⁴⁾
- ✓ Suitable for Mobile Phones⁽⁵⁾
- ✓ Battery 312 Type PR41 (IEC 60086)
- ✓ Low Battery current drain
- ✓ Small Size

Requirements

- 89600, Fitting Software Microson CODA e-STUDIO 6 (6.6.0 or higher)
- 53781, CS63 Hi-Pro Cable Right
- 53832, CS63 Hi-Pro Cable Left
- 83968, Flex Adapter
- 73194, HI-PRO^A USB Programmer (Firmware 3.00 or higher)
- 88616, HI-PRO^A 2 Programmer (Firmware 4.00 or higher)
- 66183, NOAHLINK^B Programmer (Kernel v. 1.55.03)

⁽¹⁾ Fitting Range



Product Data

- (2) Open Fit
- (3) Nanometric Coating protection against intrusion of particles
- (4) In compliance with IEC 60529
- (5) In compliance with IEC 60118-13:2011

(A)HI-PRO is a registered trademark of GN Otometrics A/S in Denmark.

(B)NOAH & NOAHLINK are licensed products and registered trademarks of HIMSA A/S in Denmark.

NOTE:

Insert Battery Type 312 Adapter for programming

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		Acoustic Data		IEC 60118-7:2005 IEC 60118-0:2015		IEC 60118-0:1993/ A1:1994	
				IEC 60118-0:2015	TUBE	EARHOOK	TUBE
OUTPUT	OSPL ¹ 90 Peak (dB _{SPL})	131	121	134	126		
	OSPL90 Peak Frequency (Hz)	1700	900	1700	900		
	HFA ² -OSPL90 / RTF ³ -OSPL90 (dB _{SPL})	118	112	129	116		
GAIN	HFA-FOG ⁴ (dB)	47	41	53	49		
	RTF-FOG (dB)	54	36	58	45		
	FOG (dB)	58	49	63	54		
	FOG Frequency (Hz)	1700	900	1800	900		
	RTG ⁵ (dB)	42	35	54	41		
NOISE	Equivalent Input Noise (dB _{SPL})	29	30	25	33		
AGC ⁶	Attack Time (ms)	1	1	1	1		
	Release Time (ms)	10	10	7	7		
DISTORTION	500 Hz @ 70 dB _{SPL} (% THD)	5.6	1.6	7.5	3.1		
	800 Hz @ 70 dB _{SPL} (% THD)	N/A	0.4	N/A	0.9		
	1600Hz @ 65 / 70 dB _{SPL} (% THD)	0.2	0.6	1.0	1.7		
CONSUMPTION	Current Drain (mA)	0.94	0.97	0.83	0.89		
FREQUENCY LIMITS	f ₁ (Hz)	200	100	900*	100*		
	f ₂ (Hz)	6500	5900	6300*	7200*		
		Power Source: 1.3 V Battery Simulator		IEC 60318-5:2006		IEC 60318-4:2010	

¹OSPL= Output Sound Pressure Level
²HFA= High Frequency Average

³RTF= Reference Test Frequency (1600 Hz)
⁴FOG= Full On Gain

⁵RTG= Reference Test Gain
⁶AGC= Automatic Gain Control

*According to DIN 45605 standard
Measurements taken without filter

⚠ WARNING!

This hearing aid can generate sound output levels in excess of 132 dB SPL (IEC 60318-4 Coupler). The hearing care specialist should be specially careful fitting the instrument as there may be risk of impairing the remaining hearing of the hearing instrument user.

Configurable parameters

	Parameter	Minimum	Maximum	Step	Default Parameters	Units
WDRC CHANNELS 1 to 8	Channel Gain	0	20	2	20	dB
	Compression TK	32	70	2	60	dB _{SPL}
	Compression Ratio	1:1	5:1	-	1:1	-
MPO* CHANNELS 1 to 8	Threshold Kneepoint	-22	OFF	2	-4	dB
BANDS 1 to 16	Band Gain	0	20	2	20	dB
FEATURES	Power On Delay	OFF	15	5	5	seconds
	Noise Reduction	OFF	17	3/4	10	dB
	Feedback Canceller	OFF	Extreme	ON (intermediate option)	Extreme	-
	Memory Change Indicator	-	-	-	ON	-
	Low-Battery Indicator	-	-	-	ON	-

*Maximum Power Output

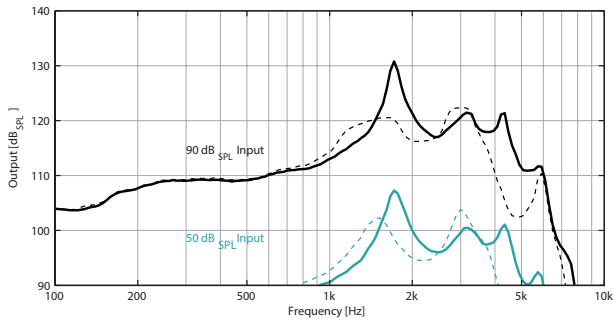
Measurements performed using a UPL 66 (Rohde & Schwarz) Id 23564 test unit on July 2017 and are subject to changes without prior notice.

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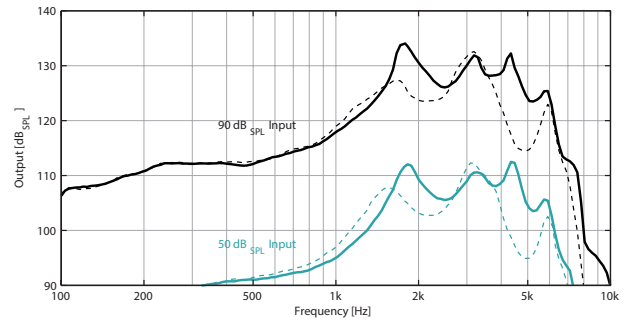


EARHOOK

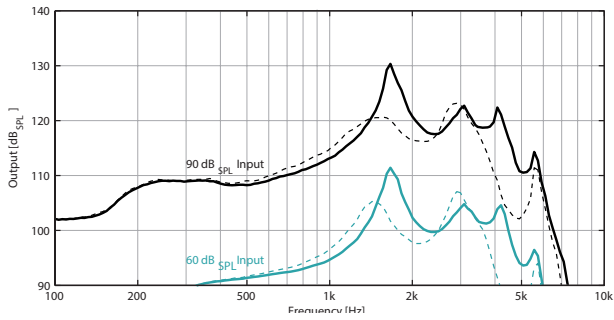
OSPL90 / OSPL50 @ FOG @ IEC 60118-7:2005 / IEC 60118-0:2015



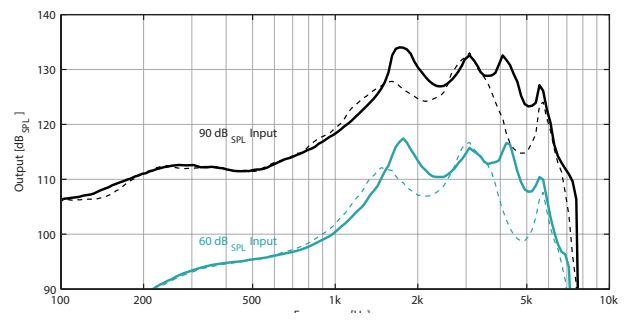
OSPL90 / OSPL50 @ FOG @ IEC 60118-0:1993/A1:1994



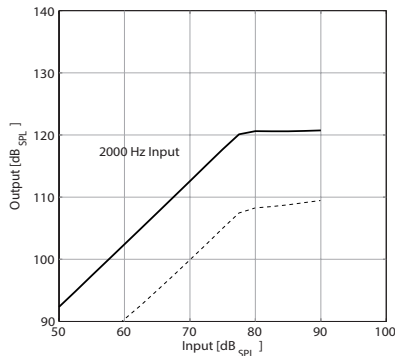
FREQUENCY RESPONSE @ RTS @ IEC 60118-7:2005/ IEC 60118-0:2015



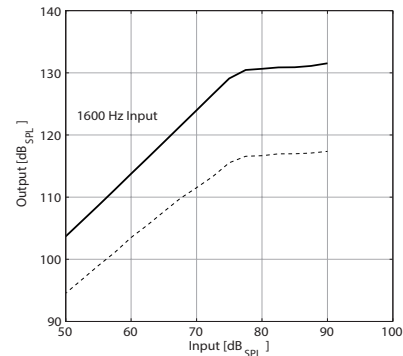
FREQUENCY RESPONSE @ RTS @ IEC 60118-0:1993/A1:1994



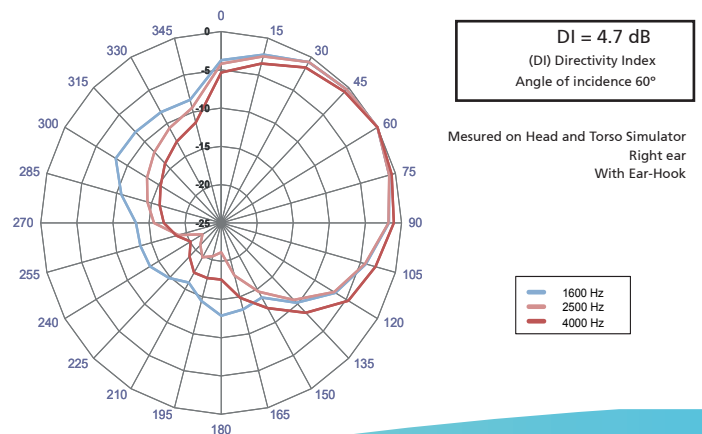
INPUT-OUTPUT @ RTS @ IEC 60118-7:2005/ IEC 60118-0:2015



INPUT-OUTPUT @ RTS @ IEC 60118-0:1993/A1:1994



POLAR PLOT DIRECTIONAL MODE @ EN 60118-8:2005



— Earhook
 - - - Earhook with filter

Product Data

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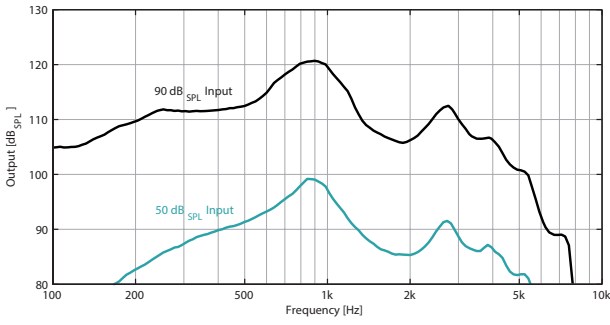
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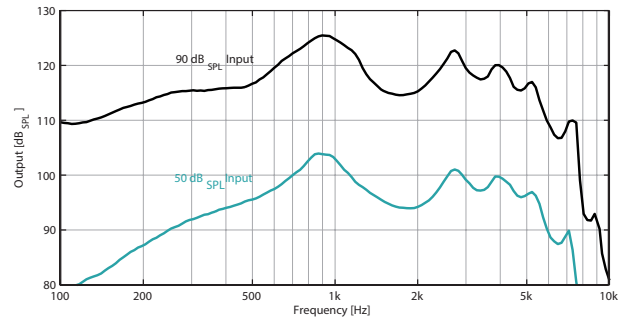
Measurements performed using a UPL 66 (Rohde & Schwarz) id 23564 test unit on July 2017 and are subject to changes without prior notice.

THIN TUBE

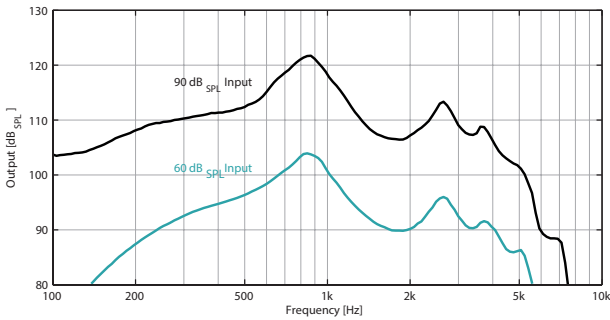
OSPL90 / OSPL50 @ FOG @ IEC 60118-7:2005 / IEC 60118-0:2015



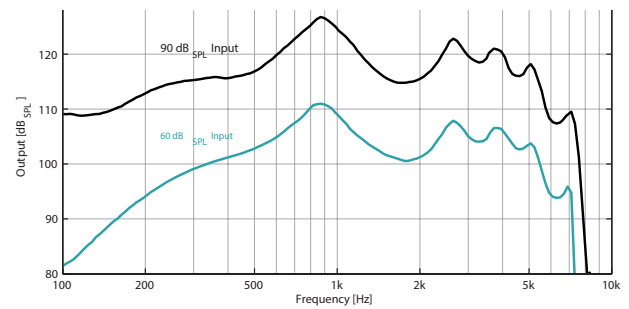
OSPL90 / OSPL50 @ FOG @ IEC 60118-0:1993/A1:1994



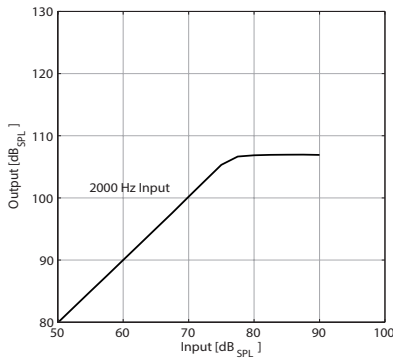
FREQUENCY RESPONSE @ RTS @ IEC 60118-7:2005 / IEC 60118-0:2015



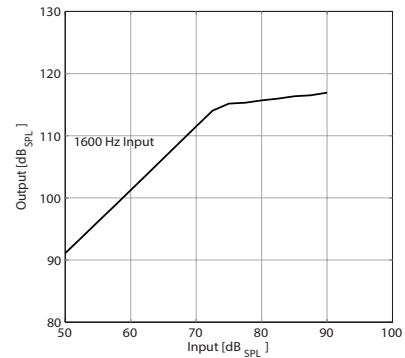
FREQUENCY RESPONSE @ RTS @ IEC 60118-0:1993/A1:1994



INPUT - OUTPUT @ RTS @ IEC 60118-7:2005 / IEC 60118-0:2015



INPUT - OUTPUT @ RTS @ IEC 60118-0:1993/A1:1994



Product Data


Measurements performed using a UPL 66 (Rohde & Schwarz) Id 23564 test unit on July 2017 and are subject to changes without prior notice.

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HEARING INSTRUMENT CLASSIFICATION IN COMPLIANCE WITH EN 60601-1 STANDARD




Medical Device Classification

Protection against electric shock	MEDICAL DEVICE WITH INTERNAL ELECTRICAL POWER SOURCE
	B Type Applied Part
	 This symbol indicates that the products described in these user instructions adhere to the requirements for an application part of Type B of IEC 60601-2-66. The surface of the hearing aid is specified as an applied part of Type B.
Working Method	CONTINUED WORKING

Power Supply Electrical Features

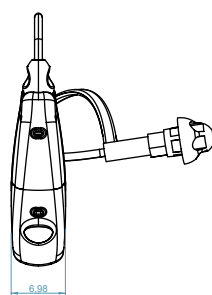
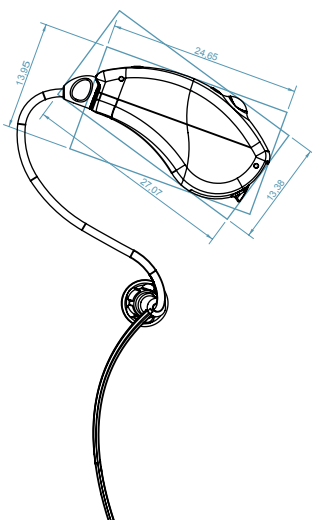
Nominal Operating Voltage	1.4 V	
Current Type	Direct current DC	
Nominal Current Leakage	Earhook	Thin Tube
	0.83 mA	0.89 mA
Battery Nomenclature (EN 60086)	PR41	

Environmental conditions

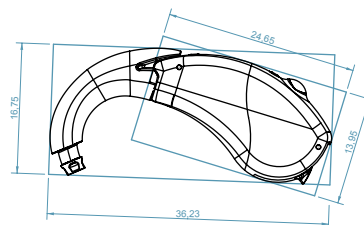
		Operation		Storage / Transport	
		Min.	Max.	Min.	Max.
	Temperature [T (°C)]	0	40	-20	60
	Relative humidity [RH (%)]	10	95	10	95
	Atmospheric pressure [P (hPA)]	500*	1100*	500*	1100*

* Avoid rapid pressure changes

Weight & Dimensions



Weight excluding battery: 1.5 gr
Weight including battery: 1.9 gr



Weight* excluding battery: 1.5 gr
Weight* including battery: 2.0 gr
Dimensions in millimeters (mm)

Accessories & Spare Parts for Professionals

- 99873, my Open Fit axes set
- 99896, Battery compartment my Open Fit P312 Black (5 pcs)
- 99900, Battery compartment my Open Fit P312 Beige (5 pcs)
- 99874, Battery compartment my Open Fit P312 Grey (5 pcs)
- xxxxx*, Battery compartment my Open Fit P312 Silver (5 pcs)
- 94582, Microson 312 hearing aid batteries M/Free
- 90556, Open Fit Tube Selector
- 99872, P312 My Open Fit Earhook (5pcs)
- 99856, Microson Open Fit mBTE Tube N° 0 R (5 pcs)
- 99829, Microson Open Fit mBTE Tube N° 0 L (5 pcs)
- 99831, Microson Open Fit mBTE Tube N° 1 R (5 pcs)
- 99832, Microson Open Fit mBTE Tube N° 1 L (5 pcs)
- 99833, Microson Open Fit mBTE Tube N° 2 R (5 pcs)
- 99834, Microson Open Fit mBTE Tube N° 2 L (5 pcs)
- 99835, Microson Open Fit mBTE Tube N° 3 R (5 pcs)
- 99836, Microson Open Fit mBTE Tube N° 3 L (5 pcs)
- 99827, Microson Open Fit mBTE Adapter Open 5mm (10 pcs)
- 99837, Microson Open Fit mBTE Adapter Open 7mm (10 pcs)
- 99838, Microson Open Fit mBTE Adapter Open 10mm (10 pcs)
- 102534, Side Identifier Label L/R (5 Pcs)

Accessories & Spare Parts for end user

- 99535, Microson Microbox ONE case
- 91118, Brush Cleaner
- 99467, Microson Wipe
- 94582, Microson 312 hearing aid batteries M/Free

Accompanying Documentation

- 99582, User's manual m2/m4 mBTE-Open Fit (ES, EN, PT, IT, FR, TR, RO, BG, EL, RU, PL, CS, DE)
- FG-0036-002-EN, m4 mBTE-Open Fit Programming guide

PRODUCT	REFERENCE	MODEL	GTIN-13
m4 mBTE-Open Fit	99659	MICROSON m4 mBTE-Open Fit Beige	8435281312764
	99680	MICROSON m4 mBTE-Open Fit Black	8435281312771
	99681	MICROSON m4 mBTE-Open Fit Grey	8435281312788
	99682*	MICROSON m4 mBTE-Open Fit Silver	8435281312757

GMDN Code: 34671

*Soon available



WARNING!

Any product modification must be carried out by a manufacturer authorised Technical Service.